

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P394777

Luminaire Tested: **303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (Compare Roadway Adding Tool)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 4 WITH EDGE GLOW
Light Source: AMBER LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772 lumens
Efficiency: N/A
Efficacy: 32.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1.06' x H: 0.01')
IES Classification: Type III - Short
BUG Rating: B1 - U1 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

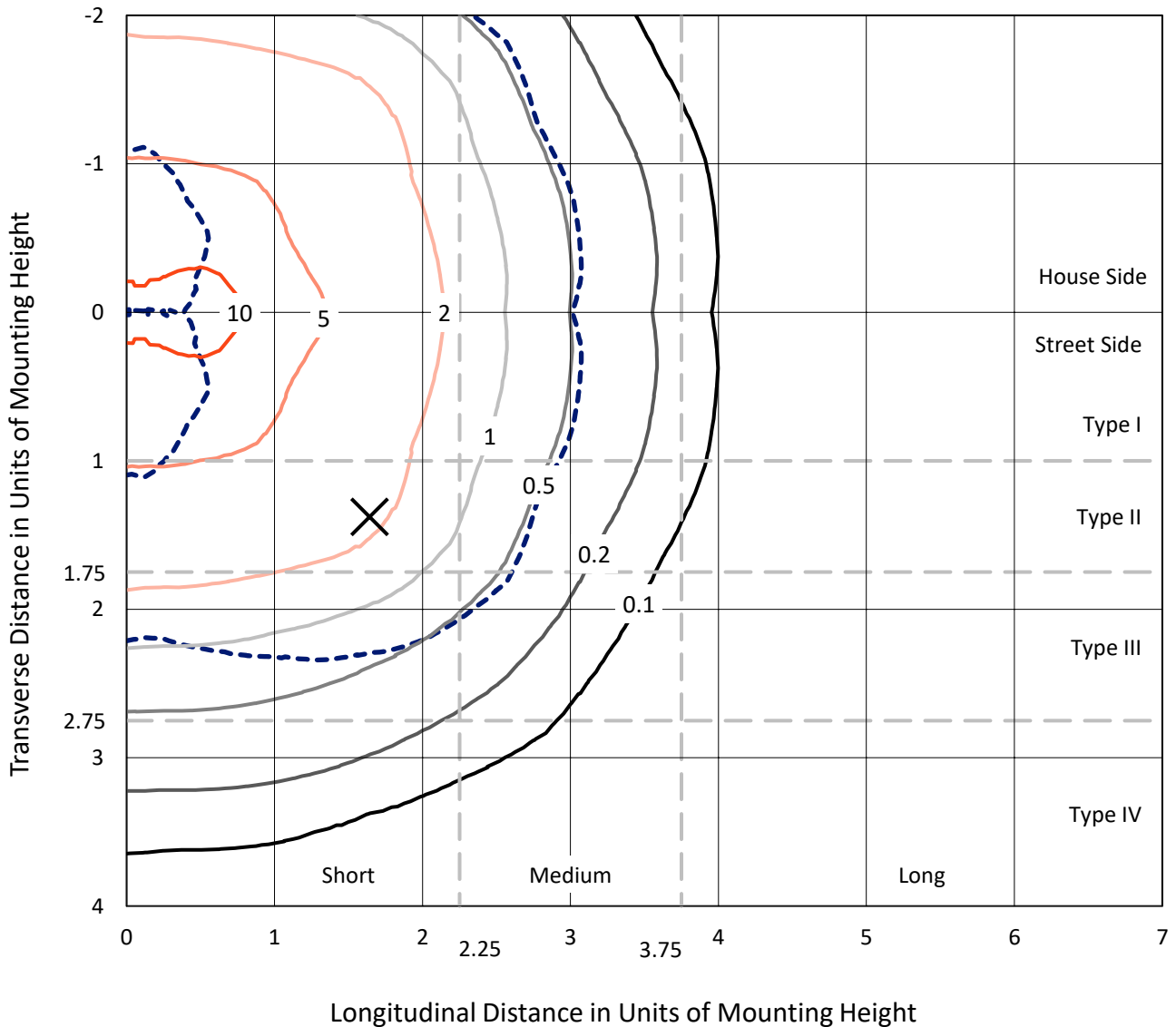


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Iso-Footcandle Lines of Horizontal Illumination

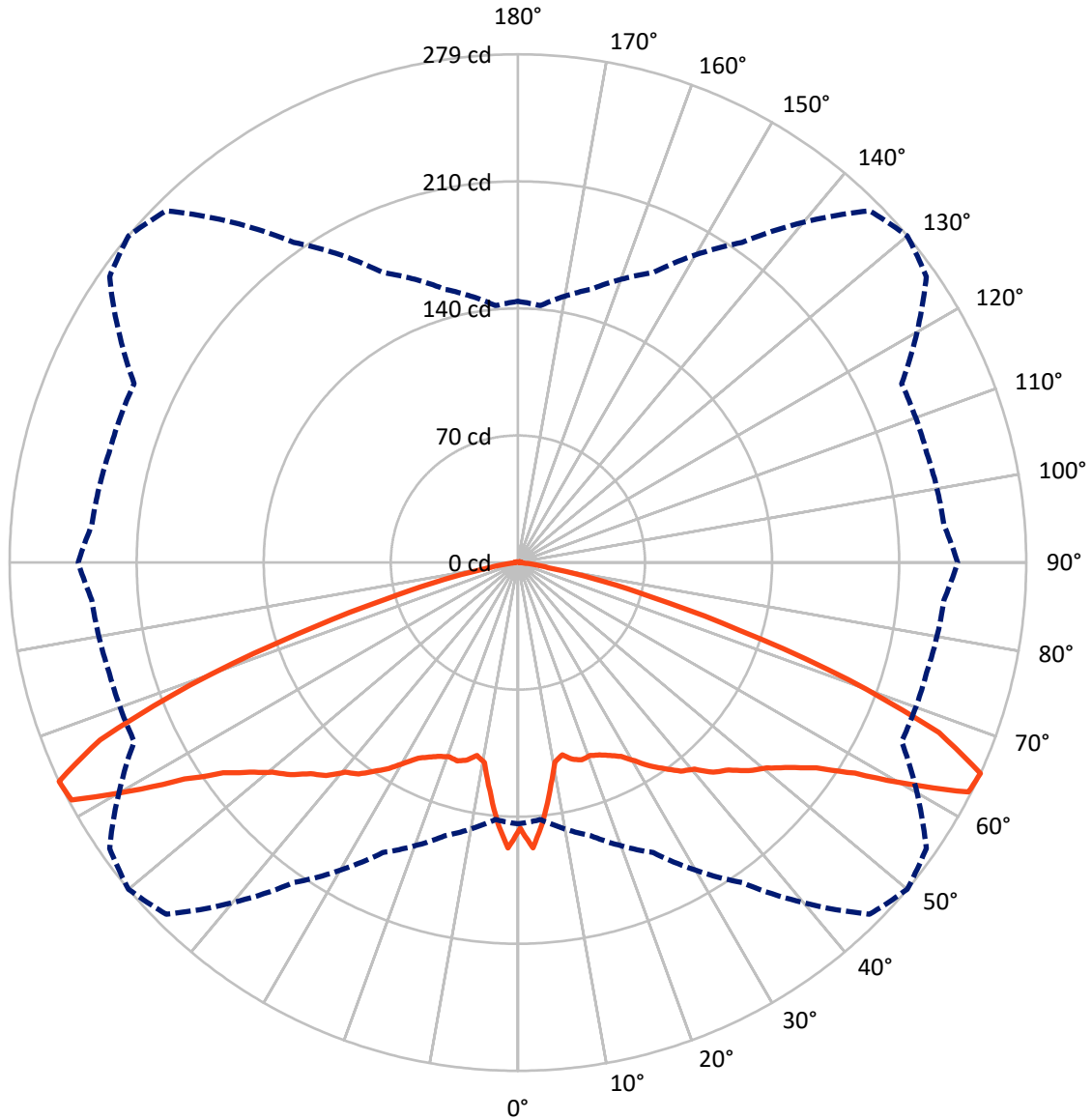
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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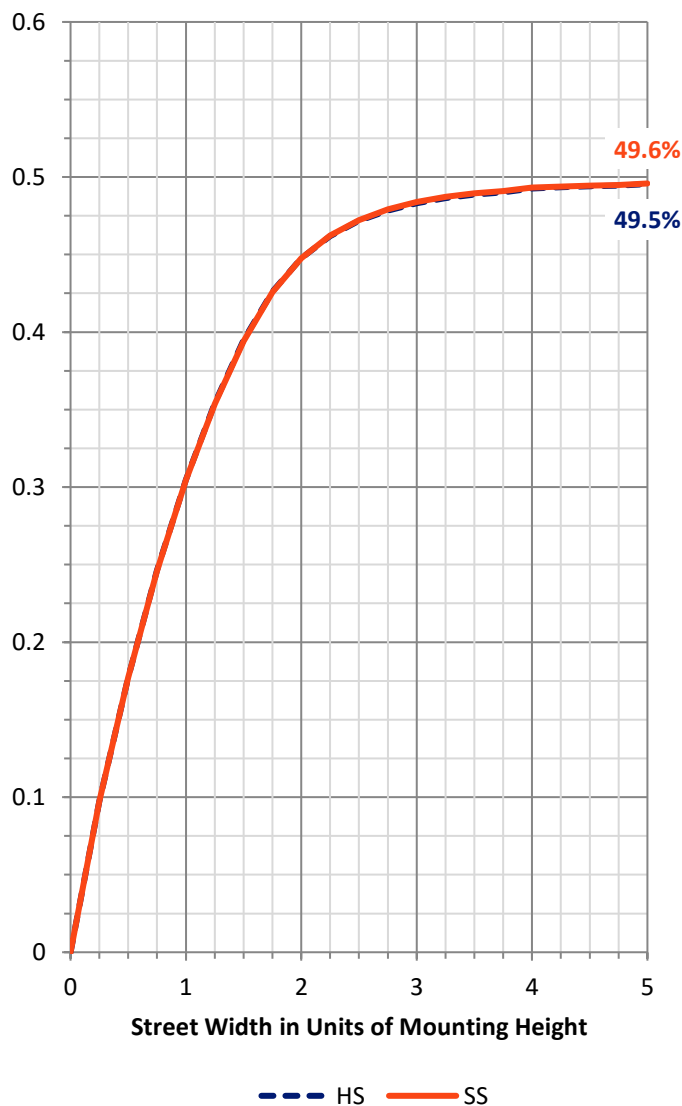
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.5	2.5	386.0
	% Fixture	49.7	0.3	50.0
Street Side	Lumens	383.5	2.5	386.0
	% Fixture	49.7	0.3	50.0
Total	Lumens	767.1	5.0	772.0
	% Fixture	99.4	0.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	1.6
10°-20°	31.9	4.1
20°-30°	55.0	7.1
30°-40°	88.2	11.4
40°-50°	122.6	15.9
50°-60°	170.1	22.0
60°-70°	203.4	26.3
70°-80°	77.9	10.1
80°-90°	5.9	0.8
90°-100°	2.0	0.3
100°-110°	1.4	0.2
110°-120°	0.9	0.1
120°-130°	0.5	0.1
130°-140°	0.2	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	767.1	99.4
0°-180°	772.0	100.0

Coefficient of Utilization



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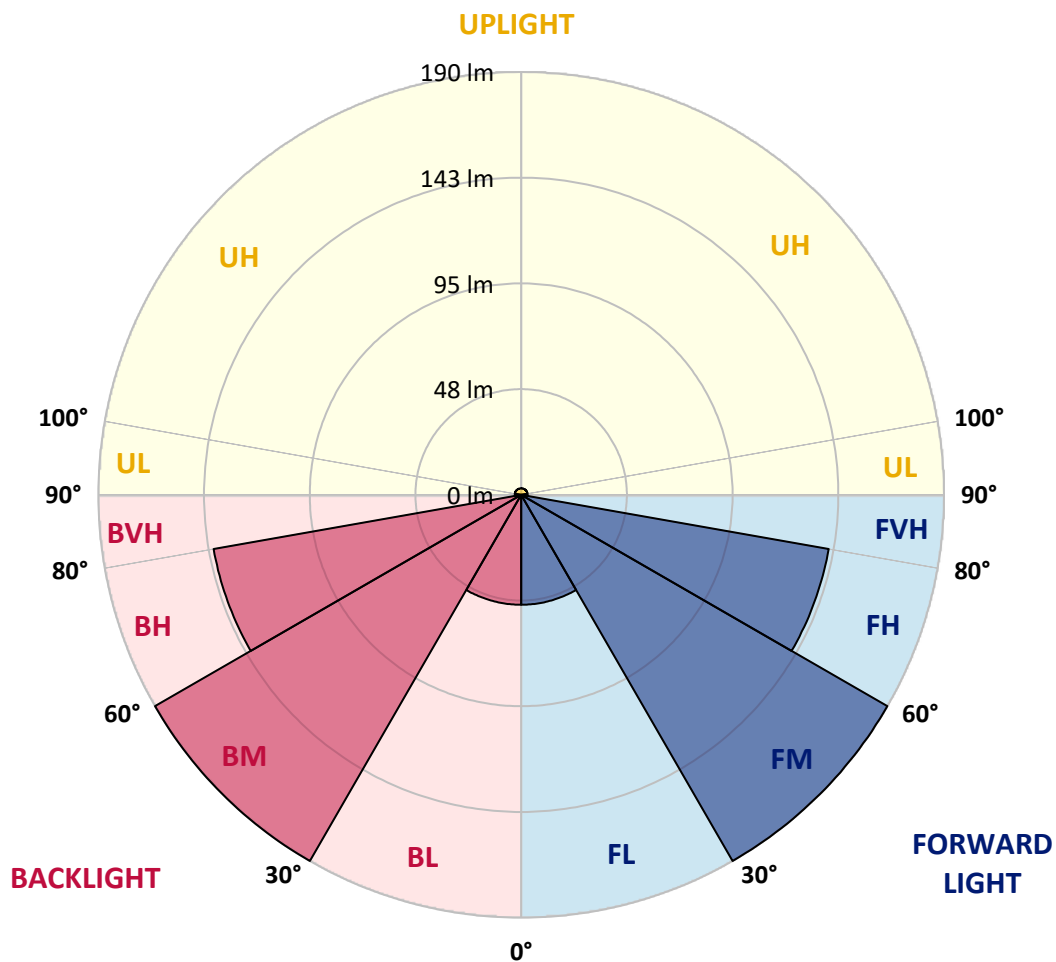
CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	49.5	6.4			
FM (30°-60°)	190.4	24.7			
FH (60°-80°)	140.6	18.2			G0/660
FVH (80°-90°)	3.0	0.4			G0/10
BL (0°-30°)	49.5	6.4	B0/110		
BM (30°-60°)	190.4	24.7	B0/220		
BH (60°-80°)	140.6	18.2	B1/500		G1/500
BVH (80°-90°)	3.0	0.4			G0/10
UL (90°-100°)	2.0	0.3		U1/10	
UH (100°-180°)	2.9	0.4		U1/10	

BUG Rating: B1-U1-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	150.2	146.6	146.6	146.6	144.8	143.0	141.5	140.0	141.2	142.4	157.0
5°	111.3	113.7	113.7	113.7	114.9	116.1	117.5	119.0	125.0	131.0	143.0
7.5°	94.5	92.7	93.9	95.1	95.7	96.3	99.0	101.7	108.3	114.9	126.4
10°	101.7	101.7	100.8	99.9	99.0	98.1	95.7	93.3	96.3	99.3	111.4
12.5°	99.9	99.3	99.6	99.9	99.9	99.9	100.2	100.5	102.3	104.1	108.4
15°	93.3	93.9	93.9	93.9	93.3	92.7	95.7	98.7	102.9	107.1	112.2
17.5°	92.7	90.3	91.8	93.3	93.6	93.9	93.9	93.9	100.5	107.1	114.0
20°	96.9	96.9	96.3	95.7	94.5	93.3	93.9	94.5	99.9	105.3	113.2
22.5°	99.9	97.5	97.8	98.1	98.7	99.3	98.4	97.5	102.6	107.7	114.9
25°	101.1	100.5	101.4	102.3	101.7	101.1	102.0	102.9	106.8	110.7	117.4
27.5°	104.1	104.1	104.4	104.7	105.3	105.9	106.8	107.7	110.7	113.7	120.7
30°	107.1	108.3	108.6	108.9	108.9	108.9	110.7	112.5	116.7	120.8	126.5
32.5°	112.5	113.1	113.7	114.3	115.5	116.7	117.2	117.8	121.7	125.6	133.4
35°	118.4	117.2	119.0	120.8	122.3	123.8	125.0	126.2	129.2	132.2	139.2
37.5°	121.4	120.8	122.9	125.0	127.7	130.4	132.2	134.0	136.7	139.4	145.5
40°	127.4	123.8	126.5	129.2	132.5	135.8	139.1	142.4	143.6	144.8	149.3
42.5°	131.0	126.8	130.4	134.0	137.0	140.0	144.2	148.4	151.9	155.5	157.6
45°	132.2	132.2	135.2	138.2	141.5	144.8	149.0	153.1	157.0	160.9	162.6
47.5°	140.6	137.0	140.0	143.0	145.4	147.8	153.4	159.1	163.9	168.7	170.9
50°	143.6	143.6	145.4	147.2	150.5	153.7	160.3	166.9	172.6	178.3	177.5
52.5°	151.9	151.9	153.1	154.3	159.4	164.5	169.6	174.7	181.9	189.0	187.1
55°	163.3	162.1	164.8	167.5	169.6	171.7	179.5	187.2	192.6	198.0	199.1
57.5°	179.5	172.9	175.3	177.7	184.0	190.2	196.5	202.8	211.2	219.5	218.5
60°	177.7	176.5	180.4	184.2	193.2	202.2	216.3	230.3	239.9	249.5	247.5
62.5°	169.9	163.9	171.7	179.5	188.4	197.4	216.3	235.1	254.5	274.0	277.9
65°	143.6	141.8	148.7	155.5	165.7	175.9	195.3	214.8	244.1	273.4	279.4
67.5°	127.4	126.2	131.0	135.8	143.3	150.7	166.9	183.1	211.5	239.9	249.6
70°	101.7	102.9	108.0	113.1	119.6	126.2	135.5	144.8	163.0	181.3	192.3
72.5°	71.8	72.4	76.9	81.4	88.2	95.1	101.1	107.1	113.4	119.6	127.6
75°	44.9	43.7	46.7	49.7	51.1	52.6	57.7	62.8	70.0	77.2	75.5
77.5°	19.7	20.3	21.8	23.3	26.6	29.9	31.4	32.9	37.1	41.3	41.7
80°	12.6	12.0	12.6	13.2	14.1	15.0	15.9	16.7	17.3	17.9	16.9
82.5°	7.2	6.6	6.9	7.2	7.5	7.8	8.1	8.4	9.0	9.6	8.5
85°	4.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.9	3.6	3.4
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.2
90°	3.6	3.6	3.6	3.6	3.3	3.0	3.0	3.0	2.7	2.4	1.9
92.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.7	2.4	2.4	2.4	1.9
95°	3.0	3.0	3.0	3.0	3.0	3.0	2.7	2.4	2.1	1.8	1.8
97.5°	3.0	3.0	3.0	3.0	2.7	2.4	2.4	2.4	2.1	1.8	1.8
100°	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.6
102.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.3
105°	2.4	2.4	2.4	2.4	2.1	1.8	1.8	1.8	1.5	1.2	1.2
107.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.2	1.2
110°	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.2	1.2	1.2	1.2



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CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	1.8	1.8	1.8	1.5	1.2	1.2	1.2	1.2	1.2	1.0
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.7
117.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6
120°	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.6	0.6	0.6	0.6
122.5°	1.2	1.2	1.2	1.2	0.9	0.6	0.6	0.6	0.6	0.6	0.6
125°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
127.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
130°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
132.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1
135°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
137.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	146.0	146.0	146.0	146.0	146.0	146.0	146.0	146.0
2.5°	169.9	172.3	174.7	161.5	148.4	146.9	145.4	144.8
5°	152.5	148.4	144.2	153.4	162.7	154.3	146.0	146.0
7.5°	135.8	139.1	142.4	146.0	149.6	148.1	146.6	142.4
10°	122.6	129.8	137.0	141.5	146.0	144.8	143.6	142.4
12.5°	114.9	123.2	131.6	137.3	143.0	143.0	143.0	141.2
15°	114.3	118.4	122.6	131.0	139.4	140.9	142.4	141.2
17.5°	120.2	120.8	121.4	129.5	137.6	139.7	141.8	140.0
20°	120.2	122.0	123.8	129.5	135.2	137.3	139.4	138.8
22.5°	121.4	125.6	129.8	131.6	133.4	137.3	141.2	137.6
25°	123.2	128.6	134.0	135.5	137.0	140.6	144.2	143.6
27.5°	127.4	133.7	140.0	142.1	144.2	146.9	149.6	150.7
30°	131.6	140.0	148.4	150.5	152.5	156.1	159.7	159.1
32.5°	140.0	145.7	151.3	157.3	163.3	166.3	169.3	168.7
35°	143.6	151.3	159.1	163.6	168.1	172.6	177.1	175.9
37.5°	151.3	154.6	157.9	164.5	171.1	176.2	181.3	179.5
40°	152.5	156.1	159.7	166.0	172.3	177.7	183.1	185.4
42.5°	158.5	160.3	162.1	166.9	171.7	178.9	186.0	187.8
45°	163.3	163.0	162.7	167.2	171.7	180.4	189.0	190.2
47.5°	171.1	168.4	165.7	169.9	174.1	181.9	189.6	193.8
50°	177.7	173.8	169.9	173.8	177.7	186.0	194.4	203.4
52.5°	186.0	183.1	180.1	182.2	184.2	194.4	204.6	208.2
55°	201.0	192.3	183.7	187.5	191.4	201.9	212.4	217.7
57.5°	213.6	207.0	200.4	201.6	202.8	211.5	220.1	229.7
60°	243.5	232.1	220.7	220.4	220.1	227.3	234.5	244.1
62.5°	275.2	257.5	239.9	238.1	236.3	242.3	248.3	250.1
65°	274.0	253.3	232.7	232.7	232.7	233.9	235.1	241.7
67.5°	247.7	231.5	215.4	212.1	208.8	209.1	209.4	203.4
70°	203.4	189.6	175.9	176.5	177.1	175.0	172.9	163.9
72.5°	135.8	131.3	126.8	130.7	134.6	133.4	132.2	126.8
75°	74.2	74.8	75.4	80.8	86.1	84.9	83.7	75.4
77.5°	40.7	39.2	37.7	38.0	38.3	36.2	34.1	29.9
80°	16.2	16.5	16.7	16.2	15.6	13.5	11.4	9.6
82.5°	7.8	7.5	7.2	7.5	7.8	6.3	4.8	4.8
85°	3.0	3.3	3.6	3.0	2.4	2.1	1.8	2.4
87.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
90°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
92.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
95°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
97.5°	1.8	1.5	1.2	0.9	0.6	0.3	0.0	0.0
100°	1.2	1.2	1.2	0.9	0.6	0.3	0.0	0.0
102.5°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
105°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
107.5°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0
110°	1.2	0.9	0.6	0.6	0.6	0.3	0.0	0.0



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CATALOG NUMBER: 303-B2-LEDB4-TSAM-UNV-T4-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
115°	0.6	0.6	0.6	0.6	0.6	0.3	0.0	0.0
117.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
120°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
122.5°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
125°	0.6	0.6	0.6	0.3	0.0	0.0	0.0	0.0
127.5°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)